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International Notes

Legionnaires' Disease — Australia

Australia has reported its first confirmed case of Legionnaires' Disease (LD). The patient and a presumptive case were identified through a retrospective serologic survey conducted on 32 patients admitted with atypical pneumonia to Fairfield Hospital in Melbourne, Australia, in 1976 and 1977 and tested at CDC.

The confirmed case, documented by sequential reciprocal indirect immunofluorescent (IF) titers of 64 and 256 in specimens collected 14 days apart, was in a 46-year-old Australian man who died. The patient with presumptive LD, documented by a single reciprocal IF titer of 256, was a 56-year-old Spanish man who moved to Australia 13 years before the onset of illness. He had visited Spain 3 years before onset, but denied severe respiratory illness relating to that visit. He recovered after prolonged treatment for severe pneumonia. Neither patient responded to penicillin or chloramphenicol.

Reported by P Cavanagh, Fairfield Hospital, Melbourne, Australia; The World Health Organization in the Weekly Epidemiological Report, October 27, 1978; Bacteriology Div, Bur of Laboratories, Special Pathogens Br, Bacterial Diseases Div, Bur of Epidemiology, CDC.

Editorial Note: In addition to Australia, LD has now been reported from Canada, England, Israel, the Netherlands, Scotland, Sweden, and Denmark. A presumptive case of LD also has been identified in a 29-year-old man hospitalized in New South Wales, Australia, who had onset of illness in early April 1978. Investigation of suspected LD among Scottish travelers to Benidorm has suggested that Legionella pneumophila, the proposed name for the LD bacterium, may be acquired in Spain (1). The patient with presumptive LD reported here may well have been previously exposed to L. pneumophila in Spain or elsewhere prior to onset of pneumonia.

Reference

1. MMWR 26:344, 1977

Epidemiologic Notes and Reports

Tuberculosis - North Dakota

A case of tuberculosis in a North Dakota nursing home employee led to an investigation of an outbreak, the source of which was found to be an expired resident whose tuberculosis had gone undiagnosed.

The index patient was a 57-year-old woman who was one of 10 employees at the 185-bed nursing home whose skin test was noted to have converted during routine testing in March 1977. Of the 142 other employees, 12 were known reactors. The index patient and 2 other converters refused X rays. The other 7 converters were X-rayed and showed no evidence of disease; they and 3 of the known reactors were placed on preventive treatment.

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE / PUBLIC HEALTH SERVICE

Tuberculosis - Continued

In June of 1977 the index patient developed severe back pains and sought medical help. She was hospitalized twice during the next 2 months. On August 5 she was diagnosed as having tuberculosis of the spine (Pott's disease). She had a negative chest X ray and positive bacteriology of the spinal fluid and drainage. She was started on therapy and remained hospitalized until October 14. The remaining 2 individuals that had refused X rays were X-rayed shortly after this diagnosis; they were negative.

In following up on the contacts of the patient, her family, friends, employees at a fraternal club where she worked part-time, and fellow nursing home employees were examined. Thirteen skin-test reactors, but no additional cases, were found among her family, friends, and fraternal club contacts; 2 reactors were placed on preventive treatment.

The follow-up Mantoux tests on the nursing home employees in September yielded 3 more converters, ranging in age from 18 to 40. Their X rays showed no active disease; 2 were placed on preventive treatment. In March 1978, when employees were retested, 4 more converters were identified. These 4 had not been available for testing in March and September of 1977. They ranged in age from 24 to 59. None had X rays that indicated current disease; 2 were placed on preventive treatment. Subsequent testing since March 1978 has found no more skin-test conversions among employees of the nursing home.

X rays were made on the 185 residents of the nursing home, and no current tuberculosis was found. Members of the Retired Seniors Volunteer Program were tuberculintested, since they visited the nursing home frequently. Eight out of the 49 members reacted to the test; however, all had negative chest X rays.

The second case was in a 27-year-old woman who had worked as a nurse's aide at the nursing home. She terminated employment in January 1977, 2 months before the routine testing program, when the first 10 converters were found. On January 7, 1978, she applied for a position in an out-of-state hospital; on her employment physical her tuberculin skin test was positive (25 mm), and an X ray showed evidence of current disease. She was placed on therapy, although her bacteriologic specimens have remained negative. Twenty-four contacts of this case were examined; no reactors were found. Her 7-year-old daughter and a male companion have remained tuberculin-negative and were not placed on preventive treatment.

Since the index patient had a non-pulmonary form of tuberculosis, and the second patient had apparently not infected any contacts, neither of them could be considered the source of all the infections in the nursing home. Therefore, the investigation continued. A search of death certificates of residents who died in the nursing home from January 1976, to April 1977 was completed. No patient was listed as having died from tuberculosis; however, death certificates for 12 of the 79 residents that died during that time had pneumonia listed as a cause of death.

One hundred twenty former employees of the nursing center were also followed up. No new cases, except the second case, were found; however, 2 known reactors were found, and both had negative X rays.

In March 1978, as an approach to finding the source of the infection, a group of clinicians and pathologists held a conference at the local hospital; a visiting expert conducted the program. During the discussion, local physicians were unable to provide new evidence of any persons with tuberculosis not known to the health department. Prior to this meeting, the visiting consultant had picked 3 of the 12 death certificates that listed pneumonia as the cause of death as being possible cases of tuberculosis. A radiologist produced X rays on these 3 people; a comparison of films from July 1976 with others going back to 1974 on 1 expired resident showed clear evidence of a pathological process

Tuberculosis - Continued

more likely to have been tuberculosis than pneumonia due to other bacteria.

This third case had the same nursing home contacts as the index patient, plus 21 more. Four reactors were found in these new contacts: 2 previous positives and 2 current reactors with no history of a previous negative test. None of these contacts showed signs of current disease, and they were not placed on preventive treatment. Although the time lapse since her death made confirmation impossible, it appears probable that this woman was the source of the nursing home outbreak.

Reported by FF Heer, BS, K Mosser, State Epidemiologist, J Weisbuch, MD, North Dakota State Dept of Health; Tuberculosis Control Div, Bur of State Services, CDC.

Editorial Note: This outbreak illustrates the importance of screening for tuberculosis in institutional settings such as hospitals, prisons, and nursing homes because of the potential for transmission (1). Screening of employees at the time of employment is recommended to establish their tuberculin skin-test status, so that skin-test conversions can later be documented and a source of new infections identified. The first clue to this outbreak was the occurrence of 10 converters in a routine testing program at the nursing home. Ironically, one of the converters who refused further examination and did not receive preventive treatment became the index case.

Screening of persons entering institutions for long stays may also be desirable at the time of admission, so that treatment of disease and preventive treatment of infection can be used to avoid introduction of tuberculosis into the institution. A recent report of an outbreak of tuberculosis in a prison (2) demonstrates the value of a screening and prevention program in this type of setting and the hazards of not having such a program. In the nursing home outbreak, it is possible that the elderly resident who was the source case might have been identified as a candidate for preventive therapy prior to her illness and death, and before she had transmitted infection within the institution. Guidelines for preventing tuberculosis transmission in hospitals have been published by CDC; the principles outlined in the guidelines are also applicable to other types of institutions (3).

The failure to make an antemortem diagnosis of tuberculosis in the source case, and the delay in reaching a diagnosis in the index case, reflect an increasingly common problem in tuberculosis. Because tuberculosis morbidity has been declining, and because specialized tuberculosis hospitals have been closed, both the public and many health-care professionals may have the mistaken impression that tuberculosis has disappeared. Consequently, the diagnosis may be overlooked. In fact, there are still about 30,000 new cases of tuberculosis and about 3,000 deaths from tuberculosis annually in the United States, indicating that an index of suspicion should be maintained and that tuberculosis should not be omitted from the differential diagnosis of compatible illness. Tuberculosis is an endemic disease in the United States, and even in low-incidence areas such as North Dakota, sporadic outbreaks like the one in this report can be expected to occur. Control of tuberculosis requires continuous surveillance for the occurrence of new cases, thorough and prompt epidemiologic investigation, and vigorous intervention with antimicrobial drugs (4).

References

- 1. American Thoracic Society: Screening for pulmonary tuberculosis in institutions. Am Rev Respir Dis 115:901-906, 1977
- Stead WW: Undetected tuberculosis in prison: Source of infection for community at large. JAMA 240:2544-2547, 1978
- 3. CDC: Guidelines for Prevention of TB Transmission in Hospitals. Atlanta, CDC, June 1975
- American Thoracic Society: Toward eradication A contemporary tuberculosis control strategy.
 Am Rev Respir Dis 118:641-644, 1978

MMWR

Relapsing Fever - California

Tick-borne relapsing fever in the United States is uncommon and may resemble, particularly initially, other febrile illnesses. Although low, the precise incidence of relapsing fever is unknown, in part because reporting is optional. The following case report illustrates some of the characteristic clinical and epidemiologic features of the disease.

On August 21, 1978, a 29-year-old man was seen in a hospital emergency room with fever of 39.4 C, shaking chills, myalgia, diaphoresis, and headache. Six days previously he had returned from a hiking and camping trip in Yosemite National Park, California. He could not recall tick bites or contact with wild rodents. Physical examination was unremarkable, and laboratory studies revealed a normal urinalysis, hematocrit, and white blood cell count (WBC). A chest X ray was normal. He was diagnosed as having a viral illness and improved spontaneously without specific treatment.

On August 29, the patient had recurrence of fever, chills, myalgia, and headache. He was admitted to the hospital, where physical examination was unremarkable except for a temperature of 38.3 C. There was no skin rash, jaundice, organomegaly, or stiff neck.

(Continued on page 535)

Index Forthcoming

Issue 53, the index to volume 27, is being published as a supplement this year instead of being inserted in the last issue of the year. Copies will be sent to all persons on the mailing list later this month.

TABLE I. Summary — cases of specified notifiable diseases, United States
[Cumulative totals include revised and delayed reports through previous weeks.]

CONTRACTOR NAME AND ADDRESS OF	51st WE	EK ENDING		CUMUI	ATIVE, FIRST 51	WEEKS
DISEASE	December 23, 1978	December 24, 1977*	MEDIAN 1973-1977**	December 23, 1978	December 24, 1977*	MEDIAN 1973-1977**
Aseptic meningitis	81	57	57	6.083	4,592	4,058
Brucellosis	1	6	6	159	220	220
Chickenpox	4,013	3,069	3,069	147,750	183,028	160,205
Diphtheria	-	1	1	75	82	207
Encephalitis: Primary (arthropod-borne & unspec.)	10	14	15	1.024	1,126	1.376
Post-infectious	-	3	2	192	207	257
Hepatitis, Viral: Type B	244	289	270	14,447	16,131	11,690
Type A	487	542	603	28.508	30,130	34,107
Type unspecified	175	175	} 603	9.021	8.730	1 341101
Malaria	8	12	5	684	524	413
Messles (rubeola)	272	219	239	26,626	54,785	26.476
Meningococcal infections: Total	36	32	25	2,290	1.742	1.398
Civilian	36	32	25	2,267	1.731	1,370
Military			-	23	11	26
Mumps	311	410	1,177	16.301	20.621	56,533
Pertussis	27	58		1,972	2.005	
Rubella (German measles)	85	1 72	134	17.660	20,031	16.096
Tetanus	1	1	1	78	80	88
Tuberculosis	563	539	585	28.616	29,483	30.522
Tularemia	1	5	3	140	161	138
Typhoid fever	4	5	6	501	379	392
Typhus fever, tick-borne (Rky. Mt. spotted)	4	5	6	1.006	1.118	809
Venereal diseases:						
Gonorrhea: Civilian	19,351	16.880	16,880	998,005	981,548	981.548
Military	373	412	412	25,194	26,092	28,235
Syphilis, primary & secondary: Civilian	460	378	389	21.417	20.152	23,381
Military	7	9	6	303	303	335
Rabies in animals	45	25	29	3.092	2,936	2,861

TABLE II. Notifiable diseases of low frequency, United States

	CUM. 1978		CUM. 1978
Anthrex	5	Poliomyelitis: Total	4
Botulism (Md. 1)	74	Paralytic	2
Cholera	12	Psittacosis (Calif, 3)	113
Congenital rubella syndrome (Ups. N.Y. 1)	27	Rabies in man	2
Leprosy (N.Y.C. 1, Md. 1, Tex. 2, Calif. 1)	155	Trichinosis (Calif. 1)	51
Leptospirosis (Tex. 1, Calif. 1)	62	Typhus fever, flea-borne (endemic, mur.ne) (Tex. 1)	39
Plague	8		100

^{*}Delayed reports received for calendar year 1377 are used to update last year's weekly and cumulative totals

Medians for gonorrhea and syphilis are based on data for 1975-1977

TABLE III. Cases of specified notifiable diseases, United States, weeks ending

		ASEPTIC	BRU-	CHICKEN-	-		100110	ENCEPHALI	TIS	HEPATI	TIS (VIRA	L), BY TYPE		71
REPORTING	GAREA	MENIN- GITIS	CEL. Losis	POX	DIPHT	HERIA	Pr	imary	Post-in- fectious	В	A	Unspecified	MAI	ARIA
		1978	1978	1978	1978	CUM. 1978	1978	1977*	1978	1978	1978	1978	1978	CU1
JNITED S	TATES	81	1	4,013	-4-	75	10	14	- 1 -	244	487	175	8	68
NEW ENG	LAND	2	_	567	_			1	_	5	7	8	2	3
Maine		~	-	47	-	-	-	-	-	111-11	-	-	-	
N.H.†		-		4	-	-	-	_			2	_	-	
Vt. Mass.†		ī	_	222	_			1		1	4	7	2	
Viass. I			_	210	_	_	_	_	-	î			-	
Conn.		1	-	82	-	-	-	-	-	3	1	1	-	1
IID. ATL		17	-	342	-	1	3	2		37	48	19	2	1
Upstate N. N.Y. City	Υ.	11		252 28	-	1	3	1	_	3 17	10 13	4	1	- 3
N. J. T		-	-	NN	_			4 1		17	25	11	1	
Pa.		3	-	62	-	-	-	1	-	NA	NA.	NA	-	- 3
E.N. CENT	TRAL	6	- 2	1,952		-	-	3	-	30	44	7	-	
Dhio		-	-	251	-	-	-	-	-	4	5		-	
Ind.†			_	228		_		· .		2	3	2	-	
III. Mich.				384 657	1		_	1 2		6	11 19	3	_	
viien. Nis.†		-	-	432	-				_	2	6	-	Ξ	
W.N. CEN	TRAL	8	_	519	-	2	_	_	-	25	53	7	12.50	92.1
Minn.		-	-	-	-	-	-	-	-	6	24	-	-	
owa†		1		174		1	-	=	_	3	3 4	- 2	-	
Mo. N. Dak.†		4	_	235 28	_	1	_			6	4	5		- 11
S. Dak. †		-	_	6	_	- 1	_	9 -	-	2	6	1	Ξ	
Vebr. Cans.		3	-	16 60	0	1	h <u>-</u>	3 -	- 3.	- 8	13	i	-	
S. ATLAN	TIC	5		59			2	444		42	81	29	2	Α.
Del.	1116	_	_	2	_		_		-	15.2	2	-	-	1 1
Md.		2	-	2	_	-	-	-	-	14	7	2	-	
D.C.		-	-	-	-	-	-	-	-	-	-	-	-	
Va.†			-	5	-	-	-	-	-	5	1	3	-	2
W. Va. N.C.		_		NN			1		1	2	7	4	1	,
S.C.		_	_	1	_	_		_		_	i	3	_	
Ga.†		3		49	- 1	-	- 1		67.	9 12	8 55	17	-	1
													•	3
E.S. CENT	HAL	4	-	225 219		_	1	4	-	13	23	4	-	
Kγ. Tenπ.		2	_	NN	- 1	- 5	ī	2		10	8	- 92	_ :	
Ala.		1.7-	-	4		_	_	1	_	3	7	4		
Miss.		2	-	2	-	-	-	1	-	-	8	-	-	
W.S. CENT	TRAL	11	1	126	- 1	1	1	1	-	17	68	17	1	
Ark. La.		1	1	NN	-	1	-	11.2		1	1	3	-	
Ca. Okla.		_	_	N N	-	_	1			- I	312	7	_	
Tex.		10	-	126	-		1	1	-	16	67	7	1	2
MOUNTA	IN	5	_	54		4	_	-	-	13	61	35	_	
Mont.		1	-	4	-	-	-	-	C., III	-1	4	1	-	
ldaho Wyo.		=		1	-	_		= =		- 2	1	_	-	
colo.			-	44	13	2		4 = -		7	7	6		
N. Mex.t		4	-	-	- 0	~	_	-	71 -	-	27	2	-	
Ariz.		_	-	NN	-	1	-	-	-	2	22	24	-	
Utah Nev.		1		1		1	-		- 1	1		2	=	
		2.2						6 Dr			100			
PACIFIC Wash. t		23	Ξ	169 146	-	67	3	3		62	102	49	1 -	26
Oreg.		-	-	1	-	-		-	-	2	11	3	-	
Calif. t		18	-	-		1	3	3		57	86	42	1 -	22
Alaska Hawaii		1	_	1 1 1 1	=	3	=	-		2	1		=	
Guam P. A.		NA	NA	NA 1	NA -		NA -	ol I	- :	NA 2	N A	AA 3	NΔ	
V.I. Pac. Trust		-	-	1	-		-		-	-	-		-	
	T	-		4		-				1.00		2		

NN: Not notifiable. NA: Not available.

^{*}Delayed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals.

¹The following delayed reports will be reflected in next week's cumulative totals: Asep. meng.: Mass. +1, Ind. +2; Chickenpox: Mass. -4, Iowa -5, Calif. +56; Enceph, primary: Wis. +4, Wash. +1; Enceph, post: Ind. +1; Hep. B: N.H. +1, Mass. +44, N.J. -2, Cas. +1; Hep. A: Mass. +26, N.J. -1, Wis. -1, N.Dak. +2, S. Dak. +58, Va. -1, Ga. +14, N. Mex. +11, Hep. unsp.: Mass. -71, N.J. -1, N. Mex. +1; Malaria: Mass. +1.

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending December 23, 1978, and December 24, 1977 (51st week)

REPORTING AREA	N	IEASLES (RU	BEOLA)	MENING	OCOCCAL IN	IFECTIONS		AUMPS	PERTUSSIS	AUE	IELLA	TETANUS
HEPUHIIAL AHEA	1978	CUM. 1978	CUM. 1977*	1978	CUM. 1978	CUM. 1977*	1978	CUM. 1978	1978	1978	CUM. 1978	CUM. 1978
UNITED STATES	272	26,626	54,785	36	2,290	1.742	311	16.301	27	85	17,660	78
NEW ENGLAND	1	2,056	2,523	3	129	83	18	897	5 1 - 1	7	807	3
Maine	-	1.319	174	-	10	4	15	5 86			156	_
NHLT	-	86	513	-	10	4	-	18	-	_	107	_
Vt.		53	294		2	8	-	6	-	6	39	2
Mass. t	1	262	643	2	46	25	-	97	-	1	259	-
R.I.	1112	328	65 834	ī	20	40	2	55	-	-	42	-
Conn.		320	034	1	41	40	1	1 35	-	-	204	1
MID. ATLANTIC	9	2,272	8,584	8	389	242	11	771	3	8	3,107	5
Upstate N.Y.	7	1,433	3,893	3	125	53	6	252	a a	6	568	2
N.Y. City	2	402	804	3	87	70	1	165	_	_	151	-
N.J.†	-	74	210	2	76	55	3	174		2	1,622	-
Pa.1		363	3,677	_	101	64	1	180	-	-	766	3
E.N. CENTRAL	96	11.552	11,961	6	250	193	149	6,716		20	0.704	
Ohio	3	497	1,866		77	71	37	1,361	8	39	8,796 1,388	1
Ind.t	6	230	4,376	1	44	15	4	358		3	631	i
III.	51	1.329	1.964	_	36	40	35	2.081		4	1,821	i
Mich.	33	7,986	1.332	5	84	51	26	1,605	1	15	3.349	i
Wis. t	3	1,510	2,483	-	15	16	47	1,311	-	14	1,607	-
		F2.										
W.N. CENTRAL	12	536 42	9,573	4	90 23	73 19	9	2.377	1	8	718	9
Minn. Iowa	7	74	2,647 4,333	1	13	10	5	22 186		2	132	2
Mo.	3	110	1.055	2	35	28	2	1,196	1	1 4	72 119	2
NL Dak	_	211	29	_	3	20		17	- 1	-	82	-
S. Dak.	_	_	75	1	4	6	1	9	-	_	112	1
Nebr.		5	214	-	-	2	_	26	_	_	34	-
Kans.	-	94	1,220	-	12	7	1	621	-	1	167	4
		5,471	4 770			2-1						
S. ATLANTIC Del.	1	7,4/1	4,739 22	4	570 19	394 23	23	1,032	2	1	1.083	18
Md.	_	51	372		38	29	_	83			38	2
D.C.	_	2	14	-	2	· i	_	2			i	-
Vat	1	2, 937	2,753	2	72	39	3	194	1	_	248	1
W. Va.	-	1.068	275	-	17	10	_	190		-	341	-
N.C.	-	122	66	1	109	79	2	81	_	-	200	4
2C.	-	199	163	-	42	42	-	18	-	1	31	4
Ga.† Fla.†	- 2	36 1, 149	770 304	- 1	207	52	18	71	1	-	29	
ria. i	-	1.149	304		201	120	18	306	T	-	188	7
E.S. CENTRAL	1	1.439	2,082	5	188	174	15	1,292	_	3	547	5
Ky.		122	1,193	1	31	32	ió	302		í	152	2
Tenn.	1	966	753	4	55	48	4	4 65	-	2	211	-
Ala.	-	102	79	-	51	59	1	434	-	_	25	
Miss.	-	249	57	1	51	35	-	91	-	-	159	3
W.S. CENTRAL	125	1.434		2	309							
Ark.	125	16	2,241 36	1	25	122	33	2,358	6	1	970	16
La.	18	376	169		123	142	_	66	- E	1 6	58 489	1 2
Okla.		19	67	_	20	15	_	4	- 3		17	3
Tex.	107	1.923	2,029	1	141	145	31	1,366	6	1	406	10
						9.00						
MOUNTAIN	-010	266	2,572		52	44	30	496	1	5	231	4
Mont. Idaho	_	107	1,170	-	6	7	-	148	1	3	21	-
Idaho Wyo.		1 1	19			2		22	100	-	3	1
Colo.	_	37	518		3	1	2	112			50	1
N. Mex.1	_	- 114-	257	_	11	11	-	20	201	- 1	30	-
Ariz.	-	57	329	-	15	15	-	24		1	102	-
Utah	-	44	23	-	6	4	28	159	kijik <u>z</u>	-	38	2
Nev.	-	20	93	13.00	7	1		9	DOT TO	-1	14	-
PACIFIC	27	1,600	10,510	4	313	217	23	992	8 - 1		1 460	
PACIFIC Wash.	10	428	559	1	51	33	23	215	6	13	1,401	14
Oreg.	8	511	367	_	33	18	1	138	1	2		1
Calif.	9	649	9,485	3	214	126	17	589	3	11	163	13
Alaska		1	60	-	10	35	1	15	2		8	
Hawaii	-	12	3 9	1.	5	5	2	35		-	12	
Guam	NA	25	9		1	1	NA	39	NA	NA	4	1
P.R.	-	311	1.092	1	12	1	30	1,656	-	-	17	10
V.I.	_	- 6	14	-	1	_	-	1	-		1	-
Pac. Trust Terr.	-	645	-	-	3	_	1	109	_	_	2	-

NA: Not available.

Delayed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals.

The following delayed reports will be reflected in pext week's cumulative totals: Measles: Mass. -2, N.J. +1, Ind. -1, Wis. -4, Va. -1; Men. inf.: Mass. +3, Pa. -2; Pertussis: N.H. +1, Ga. +1, Fla. -1, N. Mex. +2; Rubella: Mass. +1.

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending December 23, 1978, and December 24, 1977 (51st week)

-	TUBE	RCULOSIS	TULA-		HOID	TYPHU:	S FEVER		VENERE	AL DISEASES (Civilian)			RABIES
REPORTING AREA		1 4	REMIA	FE	VER	(Ar	ASF)		GONORRHEA		SY	PHILIS (Pri.		Animals
	1978	CUM. 1978	CUM. 1978	1978	CUM. 1978	1978	CUM. 1978	1978	CUM. 1978	CUM. 1977*	1978	CUM. 1978	CUM. 1977*	CUM. 1978
INITED STATES	563	28,616	140	4	501	4	1,006	19,351	998,005	981,548	460	21,417	20,152	3,09
IEW ENGLAND	28	949	2	1	80	-	15	342	25,128	26,463	16	591	789	9
Maine	3	69	-	-	-	-	-	28	2,070	2,044	1	10	28	7
I.H.	95	16	-	-	5	-	-	18	1,163	1,106	-	5	5	
/t.	20	562	- 1	1	62	_	5	7 156	605 10,927	11,335	10	3 367	7 547	
Mass.	20	7ú		-	4		- 1	10	1,865	2,029	2	29	10	
R.I. Conn.	5	191	2	_	8	_	9	123	8,498	9,332	3	177	192	
IID. ATLANTIC	69	4,416	6	1	74 10	1	58 31	2,654 707	108,828	102,441	83	2,923	2,896 254	
Jpstate N.Y. N.Y. City	22	1,415	i	_	48		4	753	18,420	17,604	65	2,042	1,836	6
l.J.	8	974	-	_	- 8	-	13	715	20,363	18,189	2	361	385	
a.	23	1.251		1	8	1	10	482	29,332	27,049	9	321	421	
.N. CENTRAL	127	4+660	1		4 0		50	2,413	155,213	155,805	38	2,430	2,088	20
Dhio	15	169	1		7		24	468	40,570	40,809	12	461	473	
nd.	7	528	_	-	2	_	1	117	15,191	14,941	3	167	156	
i.	73	1,770	-	_	17	-	25	638	49,460	50,336	3	1,493	1,103	
lich.†	22	1,238	-	-	14		-	903	36,160	36,159	14	237	247	
lis.	10	263	_	-	-	-	-	387	13,832	13,560	6	72	109	
.N. CENTRAL	21	932	29	100	20	_	51	792	50,156	50,630	4	423	447	63
linn.		154		_	7	_	-	211	8,413	9.079	i	151	158	
wa	-	105	1	_	3	-	1	96	5,510	5,951	î	35	41	
lo.	11	420	23	-	5	-	23	344	22,304	20,817	2	146	169	
I. Dak.	-	32	-	-	-	-	1	15	909	938	-	3	3	
L Dak.	3	76	-		-	-	7	44	1,697	1,585	-	3	11	
lebr.	4	29 116	1 4	-	1 4	_	12	46 36	3,582 7,741	4,350 7,880	-	14 71	25 40	
Cans.†	,	110	-		•	_		36	7,741	7,000	- 5	′1	40	3
ATLANTIC	87	6,204	10	-	65	-	535	4,321	242,061	240 , 247	103	5,606	5,385	48
Del. Ad	6	894	5		3 11	_	105	406	3,415	3,176	17	13 431	20 316	
ла. D.C.		309	11.	_	• • •	_	1 1	322	16,314	15,757	13	428	537	
Ja.	20	735	5	_	6	_	110	542	23,667	25,078	- 6	465	529	
V. Va.	- 2	225	150	_	7	-	11	49	3,300	3,416	5	35	5	i
V.C.T	7	938	_	-	3	-	200	625	34,100	36,086	15	599	715	1
S.C.	7	539	-	-	9	-	56	426	23,767	23,092	4	279	251	
Ga.	45	858 1,651		_	4 21		47	760 1,191	46,829 59,715	45,902 57,471	22	1,400	1,772	
Fla.	4,	1,071			21			14171	54,115	31,411	21	1, 730	11112	,
E.S. CENTRAL	100	2,746	8	-	10	3	183	2,118	83,854	86,721	24	1,129	766	
Cy.	27	636	3	_	2	_	42	408	11.250	11,583	. 7	149	108	
Tenn.	34	835 674	4	_	3	3	114	810	30,660	34,499	10	390	241	
Ala. Aiss.	6	601	1	-	3 2		13 14	853 47	24,431 17,513	23,881 16,758	7	199 391	161 256	
													- 200	
V.S. CENTRAL	56	3,430	67	=	58	1 -	99	2,492	132,924	125,254	145	3,514	2, 935	
Ark. .a.	14	387 637	40	_	4		16 2	144 128	9,813	9,344	14	77 718	665	
.a. Okla.	7	339	14	_	5	_	54	317	12,561	12,151	1	91	83	
Tex.	33	2,067	6		40	-	27	1,903	88,935	84.769	128	2,628	2,123	
ACCUPATION.		255						(00	30 340	20 70:				
AOUNTAIN	15	855	10	1	21 3		11	699 19	38,260 2,091	39,731 2,106	7	463	432	
daho	-	34	3	17	5		3	29	1,577	1,795	_	13	12	
bano Vyo.		15	2	_		_	1	-	941	930	_	9	3	
alo.	_	108	1	-	4	_	2	200	10,584	10,442	4	153	126	
l. Mex.†	_	133	-	-	2	_	-	96	5,486	5,816	2	83	101	
Ariz.	10	389	1	-	4	_	1	240	9,921	10,868	_ =	105	154	
Jtah	3	42	3	-	l	-	-	35	2,077	2,418	-	13	13	
lev.	0 -	74	-	1	2		2	80	5,563	5,356	1	78	16	LV.
ACIFIC	60	4,424	7	1	133		4	3,520	161,581	154,286	40	4,338	4,414	. 3
Vash.	N A	293		_	7	-	1	326	13,295	12,061	NA	241	256	
Oreg.	5	189	4	-	1	-	2	217	10,940	13,792	9	173	140	
alif.	54	3,374	3	1	114	-	1	2,820	129,508	123,236	31	3,869	3,951	3
Naska †	-	66	-	-	-	-	-	106 51	5,023	5,011	-	12	27	
Hawaii	1	532	_	-	11	_	-	51	2,815	3,186	- 7	43	40	
100	FR 9.	I A							4					311
Guam	NΔ	54 375	ī	NΑ	3	NA.	- 2	NA L6	123 2,137	207 3,087	NA 3	493	532	
					- 1									
P.R. V.I.	6	5 / 5	_	_	2	_	-	7	216	225		17		

NA: Not available.
*Delayed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals.
†The following delayed reports will be reflected in next week's cumulative totals:

TABLE IV. Deaths in 121 U.S. cities,* week ending

	1130	ALL CAUSE	S, BY AGE	(YEARS)			The second		ALL CAL	JSES, BY AG	E (YEARS)		
REPORTING AREA	ALL	>65	45-64	25-44	<1	P & I** TOTAL	REPORTING AREA	ALL AGES	>65	45-64	25-44	<1	P & I* TOTA
NEW ENGLAND	614	415	138	27	17	32	S. ATLANTIC	1,121	630	326	71	61	38
Boston, Mass.	175	105	46	8	8	8	Atlanta, Ga.	137	74	41	13	4	2
Bridgeport, Conn.	48	34	10	2	1	6	Baltimore, Md.	238	129	77	17	13	3
Cambridge, Mass.	23 27	18	4 3	1		2	Charlotte, N.C.	56	29	19	1	3	1
Fall River, Mass. Hartford, Conn.	50	26	16	2	2	_	Jacksonville, Fla. Miami, Fla.	79 145	38 75	24 53	11	3 2	
Lowell, Mass.	24	19	3	1	-	2	Norfolk, Va.	36	23	11	_	î	i
Lynn, Mass.	23	17	5	1	-	_	Richmond, Va.	69	48	17	2	ī	
New Bedford, Mass.	18	12	6		-	2	Savannah, Ga.	16	7	5	2	1	
New Haven, Conn.	42 63	26 40	14 15	1	1 2	2	St. Petersburg, Fla.	94	81	16	2	1	
Providence, R.I. Somerville, Mass.	lu.	10	15	4		9 1	Tampa, Fla. Washington, D.C.	76 126	41 55	23 34	7	5	
Springfield, Mass.	33	26	4	1	1	2	Wilmington, Del.	49	36	12	3	25	-
Waterbury, Conn.	29	23	3	3	-	3	Villiani, 2011	7,	50	**			
Vorcester, Mass.	49	35	9	3	2	1							
							E.S. CENTRAL	671	399	168	52	26	4.
MID. ATLANTIC	2.137	1,390	488	151	57	73	Birmingham, Ala.	124	66	34	11	5	
WID. ATLANTIC	52	33	11	3	2	4	Chattanooga, Tenn. Knoxville, Tenn.	50	24 37	2ú 6	3	2	
Vibany, N. Y. Vilentown, Pa.	25	17	8	_	-		Louisville, Ky.	104	54	33	1 9	5	
Suffalo, N.Y.	122	77	33	4	5	8	Memphis, Tenn.	160	102	36	13	2	
Camden, N.J.	33	21	δ	2	-	- 4	Mobile, Ala.	40	25		3	5	
Elizabeth, N.J.	27	21	5	1	-	2	Montgomery, Ala.	41	25	9	3	3	
Erie, Pa.†	35	27	8		1	2	Nashville, Tenn.	108	66	24	9	4	
lersey City, N.J.	49 66	26	6 21	11	5	1 5	100						
Newark, N.J. N.Y. City, N.Y.	1,370	8 86	310	106	38	35			744	2.12	80	44	4
aterson, N.J.	57	35	16	3	2	2	W.S. CENTRAL Austin, Tex.	1,258	27	343	4	2	•
hiladelphia, Pa. †	301	168	94	15	15	19	Baton Rouge, La.	40	27	9	7 i		
Pittsburgh, Pa. †	51	30	16	3	-	2	Corpus Christi, Tex.	33	21	7	2	2	
Reading, Pa.	40	32	6	1 1	1	3	Dallas, Tex.	206	105	65	12	12	
lochester, N.Y.	111	78	23	7	2	6	El Paso, Tex.	59	35	11	6	6	
Schenectady, N.Y. Scranton, Pa.†	18	13	8	1	1	1 2	Fort Worth, Tex.	92	66	19	3	1	
Syracuse, N.Y.	86	56	18	7	i	3	Houston, Tex.	235 82	142	25	20	4	
Frenton, N.J.	27	19	7	2		í	Little Rock, Ark. New Orleans, La.	171	86	64	9	2	
Utica, N.Y.	19	16	1	1	-	2	San Antonio, Tex.	134	81	31	11	2	
Yonkers, N.Y.	35	21	11	2	-	77. 7	Shreveport, La.	71	35	19	4	10	
							Tulsa, Okla.	101	71	22	4	2	1
E.N. CENTRAL	2,351	1.436	596	147	82	64	13a E - 5						
Akron, Ohio	80	50	25	1	3		MOUNTAIN	563	3 3 5	138	36	19	2
Canton, Ohio	33	20	10	2	-	-	Albuquerque, N. Mex	. 49	25	13	6	1	
Chicago, III.	595	348	152	45	23	13	Colo. Springs, Colo.	32	24	3	3	-11	
Cincinnati, Ohio	164	101	36	11	9	8	Denver, Colo.	136	69	42	9	3	
Cleveland, Ohio	171	103	48 45	12	3 6	7	Las Vegas, Nev. Ogden, Utah	55 19	23 15	26 3	3	1	
Columbus, Ohio Dayton, Ohio	90	55	23	2	5	2	Phoenix, Ariz.	112	72	28	2	3	
Detroit, Mich.	2 27	112	72	21	11	4	Pueblo, Colo.	27	24	2	-	ī	
Evansville, Ind.	50	33	12	3	1	1	Salt Lake City, Utah	49	22	13	6	7	
ort Wayne, Ind.	49	33	9	4	2	2	Tucson, Ariz.	84	61	8	6	3	
Sary, Ind.	25	13	7	1	-	2							
Grand Rapids, Mich.	54	40	11	2	1	2	100						- 79
ndianapolis, Ind.	193	1 22	46	14	3	4	PACIFIC Calif	1,821	1.164	452	93	57	6
Aadison, Wis. Ailwaukee, Wis.	116	80	13	6	1	3 2	Berkeley, Calif. Fresno, Calif.	19 80	13	20	1 4	6	
Peoria, III.	34	22	6	_	4	í	Glendale, Calif.	31	24	5	2	-	
Rockford, III.	54	39	9	1115	4	3	Honolulu, Hawaii	59	37	15	4	3	
outh Bend, Ind.	43	28	10	2	-	- 2	Long Beach, Calif.	103	67	28	7		
oledo, Ohio	114	81	23	5	2	1	Los Angales, Calif.	480	329	105	22	17	1
oungstown, Ohio	68	50	15	1	1	1	Oakland, Calif.	74	39	24	5	2	
							Pasadena, Calif. Portland, Oreg.	139	42 90	35	2		
N.N. CENTRAL	792	507	178	45	27	29	Sacramento, Calif.	76	46	16	4	5	
Des Moines, Iowa	67	50	12	3	-	ì	San Diego, Calif.	135	75	40	7	4	
Duluth, Minn.	29	21	6	10-	2	2	San Francisco, Calif.	174	107	49	11	4	
Cansas City, Kans.	38	25	9	-	1	-	San Jose, Calif.	168	106	43	7	4	
Cansas City, Mo	116	71	28	8	5	3	Seattle, Wash.	139	79	41	9	6	
Lincoln, Nebr.	26	23 72	19		7	2	Spokane, Wash.	55	32	15	3	4	
Minneapolis, Minn. Omaha, Nebr.	109	32	18	6	í	4	Tacoma, Wash.	40	29	7	2	2	
St. Louis, Mo.	193	108	56	11	7	9							
St. Paul, Minn.	78	58	13	4	ź	2	TOTAL	11.328	7,323	2.827	702	390	41
Wichita, Kans.	75	47	16	6	2	6	V I LEAT WILL IN						
							Expected Number	11,351	6,993	2,848	681	416	40

^{*}Mortality data in this table are voluntarily reported from 12; cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

^{**}Pneumonia and influenza

1Because of changes in reporting methods in these 4 Pennsylvania cities, there will now be 117 cities involved in the generation of the expected values used to monitor pneumonia and influenza activity in the United States. Data from these 4 cities will appear in the tables but will not be included in the totals for the United States and the Middle Atlantic Region.

TABLE III. Cases of specified notifiable diseases, United States, weeks ending
December 30, 1978, and December 31, 1977 (52nd week)

531

	ASEPTIC	BRU-	CHICKEN-				NCEPHALI		HEPATI"	TIS (VIRA	L), BY TYPE		
REPORTING AREA	MENIN- GITIS	CEL. LOSIS	POX	DIPHT		Pri	mary	Post-in- fections	В	A	Unspecified	MA	AIRA
	1978	1978	1978	1978	CUM. 1978	1978	1977*	1978	1978	1978	1978	1978	CUM 1978
UNITED STATES	77	3	4,036	2	77	9	59	2	2 90	554	211	9	694
NEW ENGLAND	2		430		_	-		A	11	18	8		33
Maine	_	-	25	-	-	-	-		-	-	-	-	
N.H.T	-	-	-	-	-		-	-	2	-	0.7	-	
Vt. Mass.	4 Ž	-	-	-	-	~	-	-	-	3		-	
R.I.	1 -		167 145	_		+ <u>-</u> -		-	2	6	6	Ξ	10
Conn.	2	-	93	-		- 1	_	-	4	4	2	-	1:
MID. ATLANTIC	7	1	209	-	1			_	55	42	15		14
Upstate N.Y.	3	_	85		-	-			18	13	6	2	2.
N.Y. City N.J.†	1		34 NN		1				17	11	3		2
Pa.†	3	1	90	-					11	10	2	-	3
E.N. CENTRAL	7	_	2,152			5	2	1	52	90	17	1	5
Ohia†	- 1	_	291	-	- 0	4	_		15	27		-	
Ind.†	40.00	-	372	-	- 1	-	-		. 9	7	5	- `	16
III.	2		446	4 -	- 65	-	-	-	20	30	7	-	1.
Mich. Wis.	1	- 12	696 347	-	799	1	2	1	9	19	5	1	2
				6-2					ACT.			_	
W.N. CENTRAL Minn.	3	2	384	10.0	2	-	3		12	33	5	-	2
Minn. Iowa	2	X 2	112	-	-		-	-	2	19	- 2	_	
Mo.			174		1		1 1		4	5	3		1
N. Dak.	1	_	1	_	-		_				_	_	
S. Dak.†		2	-	_	-	_	3	_	_	3		_	
Nebr. Kans.	- 1	- 5	15	- 5	1				3	4	- 1 - 17		
7			81		. 7		_		-	. 32		Y.	
S. ATLANTIC Del.	4	- 0	200	100	_	2	1	7	40	55	24	3	12
Md.			1 28		(1)				9	1 2	1	20	2
D.C.	-	-	- 2	_	- "	_	_	_	1	ī			-
Va.†	1		26	_		1	1	_	6	4	4	2	2
W. Va.t	-5 - 6	-	66	-				_		-		=	1
N.C.	1	-	NN	-	- 12	1		-	6	7	5	1	1
S.C. Ga.	XIII		-		- 18	- 1			5	1 5	4		
Fla.†	2	- 2	79		= =	. 17			1 12	34	10		3
E.S. CENTRAL	2	_	108	-	_		27	-	16	28	2	1	
Ky.	-	-	98	-		-		_	_	255	777	=	11-12
Tenn.	2	-	NN	-	-	_	-	_	15	13	1	_	
Ala.		-	8	-	-	-	-	-	1	10	1	1	
Miss.	-	-	2	-	- 53	- 1	27	-	ii <u>-</u> '	5	Y	-	110
W.S. CENTRAL Ark.	20		69	di.	1	- :	10	1 :	32	100	69	1	3
La.	3	_ [NN		1		6		12	19	9	1	
Okla.	i	_	-	_		_	ĭ	11.	2	2	í	-	
Tex.†	16	-	69	ar L		- 7	3	-	13	77	55	-	2
MOUNTAIN	1	-	316	11-2	4				12	66	46		-
Mont.	-	- 1-	41	-	-	- 1	-	-	B) =	9	1	-	
ldaho Wyo.	Ξ		203	24	- 1	E - 9				100		-	
nya. Calo.			66	8.2	2	1 [-		- 10	4	11	3	1	
N. Mex.	_	3 12	-	-		. 16	_			2			
Ariz.	-	-	NN	-	1	7 -7	-		6	31	38	-	
Utah Nev.	-		5	15	1	- 18		-5	2	10	1 3		
									·				
PACIFIC Wash.	31		168	2	69	2	16	1	60	122	25	3	26
Oreg.	8		152		64	1.5	-	11.	8	18	2		
Calif.†	16	_	_	1	2	1	7	1	48	89	19	3	22
Alaska †	4	-	11		3				1	1	1	_	~~
lawaii	-	-	5	-	- 55	-	-	-	1	2	-	-	2
		NA	N A	NA.		N A			NA	NΑ	NA	NA	
Current													
Guam † P.R. V.I.	NA NA	NA.	N A	NA.	- 1	N A			2 NA	2 NA	1 NA	NA.	

NN: Not notifiable. NA: Not available.

^{*}Delayed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals.

The following delayed reports are not reflected in this week's cumulative totals: Asep. meng.: N.H. +1, N.J. +1, Ohio +2, Ind. +2, Alaska +18; Chickenpox: N.H. +1, N. Va. +166, Calif. +32, Guam +2; Enceph.: Ind. +3; Hep. B: Pa. +18, W. Va. +1, Tex. +1; Hep. A: Pa. +9, S. Dak. +33, Va. -2, W. Va. +2, Fla. +2, Guam +1; Hep. unsp.: Pa. +3, Va. -1, Tex. -1, Guam +2.

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending December 30, 1978, and December 31, 1977 (52nd week)

REPORTING AREA	N	MEASLES (RL	IBEOLA)	MENIN	GOCOCCAL II	NFECTIONS	1111	MUMPS	PERTUSSIS	RU	BELLA	TETANU
TETORING AREA	1978	CUM. 1978	CUM. 1977*	1978	CUM. 1978	CUM. 1977*	1978	CUM. 1978	1978	1978	CUM. 1978	CUM. 1978
UNITED STATES	176	26, 795	55,201	44	2,335	1,819	380	16,681	24	111	17,772	82
NEW ENGLAND	3	2,057	2,525	3	135	87	5	902	5	5	813	3
Maine	-	1,319	178	-	10	4	-	586		2	158	-
N.H.†	-	86	513	-	10	4	-	18	-	-	107	_
Vt. Mass. †	3	53 263	294 644		2	8	_	6	-	1	40	2
R.I.		203	65	1	49 21	25 2	ī	97 56	- 4	1	261	-
Conn.	-	328	835	2	43	44	4	139	1	1	42 205	1
MID. ATLANTIC	8	2,281	8,666	4	391	251	11	782	1	20	3.127	5
Upstate N.Y.	5	1,438	3,959	3	128	56	2	254	1	11	579	2
N.Y. City	3	405	813	1	8.8	71	-	165	1	1	152	-
N.J. Pa.	_	75 363	210 3,687		76 99	60 64	6	180 183	_	1 7	1,623	3
E.N. CENTRAL	40	11,587	12,068	4	254	200	115					
Ohio†	70	497	1,877	-	77	72	52	6.831 1.413	3	40 2	8,836 1,390	4
Ind.f	5	234	4,376	1	4.5	16		358	_	7	638	1
HI.	6	1,335	1,931	-	30	40	20	2,101	1	5	1.826	i
Mich.	20	8,006	1,392	3	87	51	23	1,628	2	24	3,373	î
Wis.	9	1,515	2,492		15	21	20	1.331	-	2	1,609	-
W.N. CENTRAL	66	602	9,580	2	92	74	16	2.093	-	-	718	10
Minn. Iowa	2	43 76	2.65C 4.333	1	23	19 10	-	22	_	-	132	2
Mo.	63	173	1,055	-	35	28	3 7	199	-	-	72	-
N. Dak.	- 03	211	25	_	3	1		17	264	_	119 82	3
S. Dak.	_		75	_	4	6	2	ii			112	1
Nebr.	-	5	214	-	_	2	-	26	-	_	34	-
Kans.	-	94	1,224	1	13	8	4	6 2 5	- P	-	167	4
S. ATLANTIC	15	5,485	4,773	8	578	404	11	1,013	4	7	1.090	21
Del. Md.	ii In		22		19	24		57	-	-	38	-
D.C.		51 2	372 14	1	39	29	1	94	-	-	7	2
Va.	- I	2,836	2,774	1	73	39	2	196	ī	1 2	1	-
W. Va.†	_	1,068	278	_	17	10	4	194	i	1	248 342	1
N.C.	3	125	66	1	110	82	_	81	2	4	204	6
S.C.	-	199	164	1	43	42	-	18	_	1	32	4
Ga. Fla.†	12	36 1,161	77C 313	4	211	56 120	-	71 310	-	1	29 189	8
E.S. CENTRAL	1	1,440	2,107	4	192	182	19					
Ky.	- 1	122	1,200		31	32	19	311	- I	8	555 155	5
Tenn.†		966	769	2	57	48	7	472		4	215	2
Ala.	-	102	75	ī	52	61	3	437	-		25	200
Miss.†	1	250	59	1	52	41	-	91		1	160	3
W.S. CENTRAL	19	1,453	2,266	13	322	334	181	2,239	6	5	975	16
Ark. La.		16	36	1	26	20	19	641	-	-	58	1
Okla.	9	385	131	10	133	151	1	67	_	4	493	2
Tex.	10	1,033	2.031	- 2	20 143	16 147	161	1,527	6	1	17 407	10
MOUNTAIN		266	2,583	_	52	45	14	510	1	1	232	4
Mont.	-	107	1,172	-	6	7	-	148	-	i	22	-
Idaho Wyo.	-	1	171	_	4	8	6	28	-	-	3	1
Colo.	_	37	15 515		3	2	3	115		-		-
N. Mex.		3'	257		11	1r	3	20	1		50 3	1
Ariz.	_	57	329	_	15	10	2	26		_	102	
Utah Nev.	=	44	23	-	6	4	3	162	-	-	38	2
		20	53		7	2	- 14	9		-	14	-
PACIFIC	24	1,624	10,629	6	319	242	8	1,000	4	25	1,426	14
Wash. Oreg.		428	667	-	51	46	3	218	1	2	140	1
Calif.	18	529 654	367 9.491	1	34	26		1 38		3	166	-
Alaska		654	9,491 60	1	218 11	128	5	594 15	3	20	1,100	13
Hawaii	-	12	44	_	5	5		35	_		8 12	-
Guam 1 P.R.	N A	25	5	= =	1	1	NA	39	NA	NA	4	1
V.I.	NA	315	1,142		12	2	3	1,659	-		17	10
Pac. Trust Terr.	5	650	14	-	1 3		NA	109	NA	NA	1	
											2	

NA: Not available.

*Delayed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals.

†The following delayed reports are not reflected in this week's cumulative totals: Measles: Ohio –5, Ind. –7, Men. int.: Ohio +9, Miss. –1, Guam +1; Mumps: Ohio –26, W. Va. +2, Tenn. –1; Pertussis: N.H. –1, Ohio +24; Rubella: N.H. +1, Mass. +2, Ohio –2, Ind. +7, Fla. +6, Guam +1.

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending December 30, 1978, and December 31, 1977 (52nd week)

tra in mi	TUBE	RCULOSIS	TULA-		HOID		S FEVER borne)		VENERE	AL DISEASES (C	ivilian)			RABIES (in
REPORTING AREA	0.000		HEMIA	FE	/ER	(RM	ASF)		GONORRHEA		SY	HILIS (Pri.		Animal
-II) e I	1978	CUM. 1978	CUM. 1978	1978	CUM. 1978	1978	CUM. 1978	1978	CUM. 1978	CUM. 1977*	1978	CUM. 1978	CUM. 1977*	CUM. 1978
UNITED STATES	63 6	29,253	141	4	505	5	1,011	15,051	1.013.056	1000,256	258	21,675	20,567	3,12
NEW ENGLAND	35	984	2	_	80	-	15	414	25,542	26,979	5	596	796	, ,
Maine	1	70	-	-	-	-	-	28	2,098	2,103	-	10	28	
N.H.	-	16	-	-	5	-	-	16	1,179	1,120	-	5	5	
VL		41	_	-	1	-		10	615	656		3	7	
Mass.	24	586 71	_	1	62	- 1	5	178	11,165	11,488	4	371	549	
R.I. Conn.†	1 9	200	2	_	Ē	1 -	1 9	40 142	1.905 8.640	2,065 9,547	1	29 178	12 195	
MID. ATLANTIC	161	4,517	6		74	_	58	1.993	110.821	104,705	57	2.980	2,947	-11
Upstate N.Y.	2.3	799	5	-	10	-	31	391	18,811	18,852	8	207	272	2
NLY. City †	19	1,434	1	-	4 E	-	4	861	41,934	40,279	41	2,083	1,858	1
N.J.	11	985	-	-	8	-	13	192	20.495	18.295	6	367	391	
Pa.	48	1,299	-	-	8		10	549	29,581	27,279	2	323	426	
E.N. CENTRAL	8 6 3 7	4,744 898	1	2	42	1	51	2,776	157,989	160 . 893	30	2,460	2,213	
Ohio †	31	536	1	1	ź	1	25 1	777 350	41,347 15,541	41.751 15.539	5	461 172	479	
Ind. III.†	29	1,799	_	1	18	- VII	25	771	50,231	52,798	20	1,513	1,211	
Mich.	12	1,248	2	î	15	_	-	566	36,726	36.807	2	239	252	
Wis.	-	263	-	-		-		312	14,144	13,998	3	75	110	
W.N. CENTRAL	23	953	29	-	20	- TE -	51	792	50,948	51,587	8	431	454	6
Minn.	8	162	-	-	7	-	-	161	8,574	9,202	2	153	158	
lowa†	-	105	1	-	3		1	69	5,579	6.016	-	35	43	1
Ma.	5	429	23	- 1	5		23	423	22,727	21,126	5	151	172	
N. Dak.	1	33 76	-	_	_		1 7	10	919	950	1	4	3	
S. Dak.†	1	30	ī		1	وسو	12	71	1,726 3,653	1,611	No.	14	25	
Nebr. † Kans.	4	118	4	-	4	-	7	29	7,770	8,216	-	71	41	
ATLANTIC	125	6,325	10	1	66	4	539	3,782	245,843	244,473	75	5,681	5, 498	4
Del.	1	56	-	-	3	-	5	123	3,538	3,285	-	13	20	
Md.	15	909	5	1	12	1	106	631	31,585	30,740	6	437	316	
D.C.	NA	310	5	-	1		1	173	16,487	15.919	6	428	537	
Va.	N A	735	-	_	6	1000	110	314 54	23,981 3,354	25,422 3,468	2	471 37	548	
W. Va.† N.C.†	27	961	_	_	3	3	203	400	34.500	36,514	-	599	72	
S.C.	2	541	_	_	9		56	336	24,105	23,518	4	283	254	
Ga.	31	889	-	_	4	_	47	1.080	47,909	46,766	28	1,428	1,264	
Fla.	43	1,694	-	-	21	-		669	60,384	58,841	29	1,985	1 , 82 7	
E.S. CENTRAL	55	2.801	8		1 C	-	183	1,255	85,109	87,867	1	1,130	783	
Ky.t	17	653 859	3	-	2	- 1	114	195	11,445	11.822	1	150	111	
Tenn. †	24	674	1	- 5	3	_	13	410	31,070 24,431	34,999 24,273	_	390 199	253 163	
Ala. Miss.	14	615	_	_	2	-	14	650	18.163	16,773	_	391	256	
N.S. CENTRAL	56	3,486	68		58	_	99	822	133,746	126,115	25	3,539	2,942	9
Ark.	3	390	41	I	9	_	16	129	9,942	9,597	J. 0 -	77	66	
La	14	651	7	-	4	-	2	550	22,165	19,430	23	741	665	5
Okla.	39	339	14	-	. 5	_	54	143	12,704	12,299	2	93	88	
Tex.†		2.106	6	1	40		27	100	88,935	84,789		2,628	2, 123	3 5
MOUNTAIN	27	883 60	10	-	21	-	11	669 15	38,929 2,106	40,459 2,128	21	484	435	
nont. daho	3	37	2	_	5	_	3	26	1,603	1,849	4	13	12	
Nyo.†		15	2	_			ī	27	968	943	-	9	- 4	
Cola.	-	109	1	-	- 4	_	2	239	10,823	10,613	9	162	128	3
N. Max.t	5	139	-	-	2	241	-	39	5,525	5,881	3	86	101	1
Ariz.	17	406	1	-	4	- 1	1	208	10,129	11,048	8	113	154	
Jtah f Nev.	2	74	3	- 5	1 2		2	15 100	2,112 5,663	2,482 5,515	1	14 78	13	
PACIFIC	128	4,560	7	1	134	_	4	2,548	164,129	157.178	36	4,374	4,499	
Wash.	NA 14	293	-		7		1 2	201 294	13,496	12,263	NA	241 173	256	
Oreg. Calif.	137	3,481	3	1	115		í	1,899	11,234	10,964	34	3,903	4.030	
Alaska	-	74		- 1	-113	_		109	5,132	5,183	3-	12	27	
Hawaii	7	539	_	-	11	-		45	2,860	3,218	2	45	40	
Guam † PR	NA	54 375	_	NA	3	NA -		1 A 3 4	123	216 3,108	N A	494	539	
Р.Н. V.I.	NA	3/5		NA	2	NA	7 5 2	NA	2,171 216	232	NA	17		

NA: Not available.
*Delayed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals.
*Delayed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals. 1The following delayed reports are not reflected in this week's cumulative totals: TB: Ohio -B, Iowa -1, N.C. -1, Utah -2, Guam +2; T. fever: Ohio -1; RMSF: Conn. -2, Tenn. -1; GC: III. +499 civ., Tenn. -1 civ., Tex. +31 mil., Wyo. +7 civ., N. Mex. -2 civ., Guam +9; Syphilis: NYC -17, III. +20, Nebr. +1, W. Va. -5, N. Mex. +2; An. rabies: S. Dak. +10, Ky. +2, Tenn. +2.

TABLE IV. Deaths in 121 U.S. cities,* week ending December 30, 1978 (52nd week)

		ALL CAUSE	S, BY AGE	(YEARS)					ALL CAL	ISES, BY AG	E (YEARS)		
REPORTING AREA	ALL AGES	≥65	45-64	25-44	<1	P&I** TOTAL	REPORTING AREA	ALL AGES	>65	45-64	25-44	<1	P& I**
NEW ENGLAND	665	437	164	33	12	25	S. ATLANTIC	932	518	281	61	44	36
Boston, Mass.	175	106	50	12	2	4	Atlanta, Ga.	108	56	30	11	5	3
Bridgeport, Cann.	36	25	9	1	1 5	5 1	Baltimore, Md.	104	57	33	7	4	3
Cambridge, Mass.	17	13 28	3	1 2	_	1	Charlotte, N.C.	52	26	19	3	3	1
Fall River, Mass. Hartford, Conn.	57	32	19	3	_	_	Jacksonville, Fla. Miami, Fla.	82 129	48 64	22 47	6	2	3 5
Lowell, Mass.	28	20	8		-	4	Norfolk, Va.	47	22	15	2	5	4
Lynn, Mass.	25	18	6	1	-	-	Richmond, Va.	63	34	21	5	á	3
New Bedford, Mass.	25	14	11	-	П -	-	Savannah, Ga.	29	21	6	1	_	1
New Haven, Conn.	58	43	7	2	3	-	St. Petersburg, Fla.	73	57	13	3	-	-
Providence, R.I.	64	44	15	3	2	4	Tampa, Fla.	65	41	17	4	2	8
Somerville, Mass.	11 41	22	13	2	2	3	Washington, D.C.	142	68	52	9	9	3 2
Springfield, Mass.	30	21	6	-	1	1	Wilmington, Del.	38	24	6	5	2	2
Waterbury, Conn. Worcester, Mass.	58	42	e	6	ź	2							
ryoncester, Ividss.	,,,			_	_		E.S. CENTRAL	436	284	94	27	18	22
							Birmingham, Ala.	68	36	22	- 6	3	
MID. ATLANTIC	2 . 247		51 4	124	66	89	Chattanooga, Tenn.	44	32	8	3	1	3
Albany, N.Y.	6.9	40	19	2	3	2	Knoxville, Tenn.	38	30	4	1	2	1
Allentown, Pa.	22	19	3	-	-	3	Louisville, Ky.	79	54	11	5	7	6
Buffalo, N.Y.	115	77 30	25	7	6	13	Memphis, Tenn.	56	40	12	3	-	3
Camden, N.J.	38	30 20	11	2	100	2	Mobile, Ala.	43	20	14	5		5
Elizabeth, N.J.	35	23	11	-	ī	3	Montgomery, Ala.	42	30	. 8	1	2	1
Erie, Pa.† Jersey City, N.J.	54	32	13	2	3	11	Nashville, Tenn.	66	42	15	3	3	3
Newark, N.J.	61	26	20	6	4	4							
N.Y. City, N.Y.	1,490	974	330	94	42	51	W.S. CENTRAL	1.047	597	275	80	37	39
Paterson, N.J.	32	18	11	1	2	2	Austin, Tex.	48	34	6	5	1	4
Philadelphia, Pa. †	278	159	80	21	11	14	Baton Rouge, La.	36	18	11	4	2	3
Pittsburgh, Pa. †	74	45	22	3	2	4	Corpus Christi, Tex.	20	9	8	1	2	2
Reading, Pa.	39	29	7	1	1	2 5	Dallas, Tex.	161	93	40	18	4	1
Rochester, N.Y.	100	68 24	26	1 2	2	1	El Paso, Tex.	31	21	6	2	-	4
Schenectady, N.Y. Scranton, Pa.†	31	20	10			3	Fort Worth, Tex.	87	47	22	7	5	2
Syracuse, N.Y.	84	55	21	4	2	í	Houston, Tex.	231	120	71	16	10	
Trenton, N.J.	22	17	- 5	-	-	_	Little Rock, Ark. New Orleans, La.	134	17 80	15 35	10	1	3
Utica, N.Y.	21	19	1		1	1	San Antonio, Tex.	146	83	39	7	7	4
Yonkers, N.Y.	33	23	в	2	-	-	Shreveport, La.	41	33	5	_	i	6
							Tulsa, Okla.	71	42	17	4	3	6
E.N. CENTRAL	2,208	1,352	528	151	89	87	7.01						
Akron, Ohio	54	31	11	8	3	1	MOUNTAIN	554	335	118	54	18	19
Canton, Ohio	44	32	12	-	-	2	Albuquerque, N. Mex	. 54	29	11	9	-	7
Chicago, III.	563	334	141	45	21	18	Colo. Springs, Calo.	32	18	9	3	-	1
Cincinnati, Ohio	1 34	84	37	3	. 8	6	Denver, Colo.	112	74	19	11	2	4
Cleveland, Ohio	167 135	90 75	43	15	12	10	Las Vegas, Nev. Ogden, Utah	61	26 14	20	8	1	2
Calumbus, Ohio	109	60	36	4	5	3	Phoenix, Ariz.	141	88	30	14	6	3
Dayton, Ohio Detroit, Mich.	235	133	61	18	g	5	Pueblo, Colo.	15	10	3	i	i	
Evansville, Ind.	24	19	10	3	ı L		Salt Lake City, Utah	46	28	8	4	5	2
Fort Wayne, Ind.	35	23	4	3	4	1	Tucson, Ariz.	73	48	16	4	-	-
Gary, Ind. Grand Rapids, Mich.	64	50	10	ī	1	6							
Indianapolis, Ind.	152	112	49	16	ģ	4	PACIFIC	1,644	1.077	374	98	52	49
Madison, Wis.	18	11	4	2	_	_	Berkeley, Calif.	20	15	5	_	-	1
Milwaukee, Wis.	108	79	21	2	2	3	Fresno, Calif.	75	45	15	4	8	ī
Peoria, III.	48	36	6	2	3		Glendale, Calif.	25	19	5	-	1	1
Rockford, III.	43	33	4	2	2	4	Honolulu, Hawaii	59	37	13	3	2	-
South Bend, Ind.	40	31	7	1	-	3	Long Beach, Calif.	78	50	23	4		. 6
Toledo, Ohio	117	72 45	23	11	4	2	Los Angeles, Calif.	511 78	339 41	114	33 12	13	14
Youngstown, Ohio	65	49	16	3	1		Oakland, Calif. Pasadena, Calif.	39	27	11	12	-	6 2
			18.76				Portland, Oreg.	100	65	19	6	3	-
W.N. CENTRAL	671	438	152	29	31	28	Sacramento, Calif.	76	50	18	· 6	5	4
Des Moines, Iowa	25	32	10	2	ī	2	San Diego, Calif.	112	66	28	12	3	2
Duluth, Minn. Kansas City, Kans.	32	23 15	10	2	2	1	San Francisco, Calif. San Jose, Calif.	151	108	32 30	6	9	3
Kansas City, Mo.	120	75	24	4	11	3	Seattle, Wash.	90	61	23	1	3	3
Lincoln, Nebr.	29	20	7		1	4	Spokane, Wash.	48	32	11	î	2	4
Minneapolis, Minn	69	51	13	2	2	2	Tacoma, Wash.	40	31	8	_	-	1
Omaha, Nebr.	67	49	13	_	2	3	,			_			
St. Louis, Mo.	156	95	38	11	7	3							
St. Paul, Minn.	62	43	13	3	3	3	TOTAL	10,404	6,509	2,500	657	367	394
Wichita, Kans.	67	35	24	5	2	6							
							Expected Number	11,461	7.067	2. 273	684	417	421

^{*}Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

*Pneumonia and influenza

Because of changes in reporting methods in these 4 Pennsylvania cities, there will now be 117 cities involved in the generation of the expected values used to monitor pneumonia and influenza activity in the United States. Data from these 4 cities will appear in the tables but will not be included in the totals for the United States and the Middle Atlantic Region.

Relapsing Fever — Continued

Laboratory studies revealed a hematocrit of 42% and WBC of 10,600/mm³ with 65% neutrophils (9% bands), 24% lymphocytes, and 11% monocytes. The urinalysis showed trace protein. An erythrocyte sedimentation rate (ESR) was 68 mm/hour. Serum creatinine, serum glutamic oxalacetic transaminase, alkaline phosphatase, and bilirubin were normal. A lumbar puncture revealed a normal opening pressure, and normal protein and glucose, but 3 red blood cells and 6 WBC/mm³ (5 lymphocytes and 1 neutrophil). Serologic tests for brucellosis, tularemia, and leptospirosis were negative. The Weil-Felix reaction revealed a negative *Proteus* OX-19 and OX-2, but the *Proteus* OX-K was positive at 1:80 dilution.

The patient was given symptomatic treatment. His temperature spontaneously resolved by August 30, and he was discharged on September 1.

On September 8, the patient returned with a fever of 40.6 C. Repeat physical examination was again unremarkable. The hematocrit was 37% and the WBC 9,900/mm³ with 76% neutrophils (3% bands), 20% lymphocytes, and 4% monocytes. *Borrelia* organisms were seen on Wright-stained blood smears. The ESR remained elevated at 65 mm/hour. Repeat *Proteus* OX-19, OX-2, and OX-K were negative, as were tests for brucellosis and tularemia.

The patient was begun on a course of oral tetracycline, 500 mg every 6 hours for 10 days, for treatment of relapsing fever. His fever defervesced within 12 hours of the initial dose of tetracycline, and he has remained well since.

Reported by RM Wilkes, MD, SC Vandervoort, MD, South San Francisco; JM Bodie, MD, San Mateo County Health Dept; J Chin, MD, State Epidemiologist, California Dept of Health Services; Bacterial Zoonoses Br, Bacterial Diseases Div, Bur of Epidemiology, CDC.

Editorial Note: Relapsing fever in the United States is due to the bite of soft ticks that have become infected with *Borrelia* organisms. *Orthnithodoros hermsi*, *O. turicata*, and *O. parkeri* are of primary importance as vectors of the etiologic agent. Disease usually occurs in the summer months, primarily in the western states. Although the majority of occurrences are sporadic, several recent outbreaks of tick-borne relapsing fever have been reported (1,2). Louse-borne relapsing fever is not presently a problem in this country.

O. hermsi is probably responsible for most reported human infections. It is prevalent in forested mountainous regions and inhabits unoccupied cabins or rodent nests in dead trees. Human contact with O. hermsi frequently goes unrecognized because the tick feeds briefly at night and has a painless bite.

Visitors exposed in *Borrelia*-endemic areas may return home before showing signs of illness since the disease has an average incubation period of about 7 days. Diagnosis is best made by demonstrating the causative organism in the blood during the febrile phase of the illness. *Borrelia* are readily stained with aniline and acid dyes, and can be recognized on Wright-stained blood films (3).

Serologic tests for relapsing fever have been developed; however, they are difficult to perform and are of limited utility. With the exception of certain strains using special media, the organism cannot be cultured. Animal inoculation with patient blood and subsequent demonstration of the spirochete in the animal may be used for cases difficult to diagnose (3).

References

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- Southern PM, Sanford JP: Relapsing fever. A clinical and microbiological review. Medicine 48:129-149, 1969

Follow-up on Poliomyelitis - Netherlands

The recent epidemic of type 1 poliomyelitis in the Netherlands has ended. A total of 110 cases with onset between April 14 and October 12, 1978, were reported.

Except for 1 case, all were confirmed virologically. Eighty of the 110 patients had paralysis; of these, 67 had spinal paralysis, 7 had bulbar paralysis, and 6 had both spinal and bulbar involvement. There was 1 death—that of a girl 3 months of age. All 110 patients were unvaccinated members of Protestant denominations that, for the most part, reject vaccination on religious grounds.

Reported by H Bijkerk, MD, Office of the Chief Medical Officer, Netherlands; Viral Diseases Div, Bur of Epidemiology, CDC.

Editorial Note: Since travelers to the Netherlands are no longer at increased risk of exposure to poliomyelitis, vaccination against poliomyelitis is no longer specifically recommended for them.

The fact that all cases were in unvaccinated persons and that cases occurred in many parts of the country, where there is frequent contact between vaccinated and unvaccinated populations, illustrates a high vaccine efficacy for the inactivated poliomyelitis vaccine (IPV). It also points out the significant risk of disease in an unvaccinated subpopulation of a nation with a high overall vaccination rate. Of the total Dutch population under 27 years of age, approximately 92.5% had received between 3 and 6 doses of IPV (1,2). Because poliomyelitis was common in the Netherlands prior to the mid-1950s, only a very small proportion of the Dutch people 27 years of age or older would have been susceptible to the disease.

References

- 1. Cohen H: Immunization against poliomyelitis in the Netherlands, report presented at Institute of Medicine Study Evaluation of Poliomyelitis Vaccines, Apr 1977. Washington, D.C., National Academy of Sciences
- 2. Bijkerk H. Personal communication

Current Trends

Primary and Secondary Syphilis — United States, September 1978

Reported primary and secondary syphilis cases numbered 2,017* in September 1978, representing an increase of 14.9% over the 1,756 cases for September 1977 (Table 1). This is the seventh consecutive month this year that more infections were reported compared to the same month of last year. During the first 9 months of 1978, 15,817 such cases were reported—3.5% more than the number reported during the same time period of 1977.

Although 32 areas reported an increase in the number of cases occurring in 1978 compared to 1977, the increase remains largely localized to 7 reporting areas (California [excluding Los Angeles and San Francisco], Chicago, Los Angeles, Mississippi, New York City, Tennessee, and Texas). These areas combined account for 78% (1,334/1,714) of the increased number of cases this year. Twenty-seven areas reported fewer cases in the first 7 months of 1978 compared to the same time period of 1977.

Reported early latent (less than 1 year's duration) syphilis cases numbered 12,500 during January-September 1978, up 1.0% over the number reported during January-September 1977.

Reported by Venereal Disease Control Div, Bur of State Services, CDC.

^{*}provisional data

TABLE 1. Summary of reported primary and secondary syphilis cases by reporting area, September 1978 and September 1977 (provisional data)

Reporting Area by HEW Region	Sept	em ber	Cum	dar Year suletive ry - Sept.	Reporting Area by HEW Region	Sept	ember	Com	lar Ýant ulatíva ry - Sept.	Reporting Area by HEW Region	Sap	tura ber	Cum	iar Year niative ry - Sept.
120	1878	1977	1978	1877	114	1978	1977	1978	1977	and control of	1878	1977	1979	1877
Connecticut	16	18	130	138	Illingis				-	Arizona	14	7	81	118
Maine	0	3	7	19	(Excl. Chicago)	13	11	116	120	California	1.50	-100		1
Massachusetts	37	44	265	437	Chicago	175	106	1,013	747	(Excl. LA & SF)	133	110	1,269	1 100
New Hampshire	1 1	0	6	4	Indiana	55-17		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Los Angeles*	156	98	1.269	1.006
Rhode Island	3	1	19	9	(Excl. Indianapolis)	6	5	60	78	San Francisco*	44	75	457	646
Vermont	ا ا	Ó	3	5	Indianapolis*	17	13	54	48	Hawaii		3	31	26
REGION I TOTAL	57	66	430	612	Michigan	24	17	178	199	Nevada	i		31	14
	-			1	Minnesota	3	17	125	110	REGION IX TOTAL	351	294	3,138	2,916
New Jersey	33	23	249	262	Chio	32	44	320	378	MERICA IX IDIAL	331	250	3,130	2,010
New York			- 10		Wisconsin	3	10	49	85			5	9	25
(Excl. NYC)	18	28	156	211	REGION V TOTAL	273	223	1,915		Alaska	2		ء ا	45
New York City	150	142	1.432	1,319	HERIUM A IDIAL	2/3	223	1,813	1,765	idaho	13	24	114	108
REGION II TOTAL	201	193	1,837	1.792		9	6	57		Oregon	25	27		
MEDIUN II TUTAL	201	183	1,047	1,782	Arkansas	76	69		52	Washington	41		177	187
Onlaware	2	1	9	16	Louisiana	/6	69	550	534	REGION X TOTAL	41	54	309	321
	25	38	306	427	New Mexico			72	71					
District of Columbia	25	38	106	42/	Oklahoma	10	8	76	62	UNITED STATES				
Maryland	20				Texes	243	180	1,835	1,526	TOTAL	2,817	1,756	15,817	15,28
(Excl. Baltimore)	20	14 24	120	118	REGION VI TOTAL	344	269	2,590	2,245					
Baltimore	27	24	219	214	1344					Puerto Rico	53	53	399	466
Pennsylvania					lowa	1	4	31	29	Virgin Islands	2	- 1	18	11
(Excl. Philadelphia)	8	16	81	122	Kansas	7	7	68	49	UNITED STATES,		7		
Philadelphia	22	22	155	188	Missouri	18	15	109	126	INCLUDING	100			1
Virginia	58	50	366	423	Nebraska	0	0	11	25	OUTLYING AREAS	2,872	1,810	18,234	15,75
West Virginia	2	. 0	16	3	REGION VII TOTAL	26	26	219	229					Sales and
REGION III TOTAL	164	165	1,272	1,511										
					Colorado	11	11	87	98					
Alabama	19	23	137	119	Montana	0	0	7	5					
Florida	183	138	1,464	1,401	North Dakota	0	0	2	3					
Georgia					South Dakota	1	6	3	10	Note: Cumulative total		evised and	delayed	reports
(Excl. Atlanta)	69	94	605	626	Utah	0	3	11	8	through previous	months.			
Atlanta*	72	36	428	331	Wyomino	0	آ ا	5	1 2					
Kentucky	12	14	107	76	REGION VIII TOTAL	12	20	115	128	Source: CDC 9.98 CD 30333.	L. VII Ca	III O Divis	on. Atlan	IA, GA
Mississippi	51	24	301	198			1	1		30333				
North Carolina	62	63	443	640										
South Carolina	35	26	221	199										
Tennessee	45	26	286	175				1						
REGION IV TOTAL	548	ı.	3.992	3,765										

^{*}County data

International Notes

Influenza - Worldwide

United States: As of December 28, 1978, outbreaks of influenza among students and/or military personnel and the isolation of influenza A(H1N1) viruses have been reported from Arizona, California, Colorado, Florida, Georgia, Illinois, New Mexico, Oregon, Texas, and Utah. Laboratory confirmation of similar outbreaks is pending in Idaho and Washington. In addition to previous reports from New York City and Puerto Rico this season, isolates of influenza A(H1N1) viruses have also been reported from sporadic cases during December in Hawaii, Minnesota, Missouri, and New Jersey.

Worldwide: The World Health Organization has reported the isolation of influenza A(H1N1) strains from school outbreaks during November in France and Spain. Influenza A(H3N2) strains have also been isolated from a localized outbreak in an orphanage in

The Morbidity and Mortality Weekly Report, circulation 84,000, is published by the Center for Disease Control, Atlanta, Georgia. The data in this report are provisional, based on weekly telegraphs to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the succeeding Friday.

The editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials. Send reports to: Center for Disease Control, Attn: Editor, Morbidity and Mortality Weekly Report, Atlanta, Georgia 30333.

Send mailing list additions, deletions, and address changes to: Center for Disease Control, Attn: Distribution Services, GSO, 1-SB-36, Atlanta, Georgia 30333. When requesting changes be sure to give your former address, including zip code and mailing list code number, or send an old address label.

Influenza - Continued

Hungary during November, and from patients ill in November in a hospital in Israel. The same month, influenza B viruses were isolated in the USSR from sporadic cases in Baku.

Reported by the World Health Organization in the Weekly Epidemiological Record, December 15 and 22, 1978; State Epidemiologists and Laboratory Directors; Immunization Div, Bur of State Services, and the WHO Collaborating Center for Influenza, Bur of Laboratories, CDC.

TABLE I. Summary — cases of specified notifiable diseases, United States (Cumulative totals include revised and delayed reports through previous weeks.)

	52nd WE	EK ENDING		CUMU	LATIVE, FIRST 52	WEEKS
DISEASE	December 30, 1978	December 31, 1977*	MEDIAN 1973 1977**	December 30, 1978	December 31, 1977*	MEDIAN 1973-1977**
Aseptic meningitis	77	99	65	6,160	4,691	4,088
Brucellosis	3	2	14	162	222	222
Chickenpox	4,036	2,858	2,858	151,833	185,886	162,270
Diphtheria	2	4	4	77	96	224
Encephalitis: Primary (arthropod-borne & unspec.)	9	59	54	1,038	1,185	1,401
Post-infectious	2	13	4	195	220	259
Hepatitis, Viral: Type 8	290	323	272	14.781	16.454	11.877
Type A Type unspecified	554 211	744 183	854	29.170	30.874 8.913	34,599
Malaria	211	163	, ,	9.161 694		
	176	416	242		531	415
Measles (rubeola)	44	17	23	26,795	55,201	26,718
Meningococcal infections: Total Civilian	44			2,335	1,819	1,414
		73	23	2,312	1,804	1.385
Military		4	1	23	15	27
Mumps	380	343	896	16,681	20,964	57,429
Pertussis	24	51		1,999	2,056	
Rubella (German measles)	111	138	126	17,772	20.169	16,210
Tetanus	4	4	4	82	84	93
Tuberculosis	636	846	567	29,253	30,329	31,089
Tularemia	1	6	4	141	167	144
Typhoid fever	4	9	10	505	398	405
Typhus fever, tick-borne (Rky. Mt. spotted)	5	13	7	1,011	1,131	811
Venereal diseases:	00.1					
Gonorrhea: Civilian	15.051	18,708	15,715	1,013,056	1000,256	1000,256
Military	149	294	308	25,343	26.386	28,637
Syphilis, primary & secondary: Civilian	258	415	343	21,675	20,567	23,724
Military	4	1	2	307	304	343
Rabies in animals	42	35	42	3,134	2,971	2,907

TABLE II. Notifiable diseases of low frequency, United States

To William T. Property - To Pro-	CUM. 1978	-22/QM M17FT	CUM. 1978
Anthrax	5	Poliomyelitis: Total	4
Botulism (Calif. 1)	75	Paralytic t	2
Cholera	12	Psittacosis (Ore. 1, Calif. 1)	115
Congenital rubella syndrome (Mich. 1, Fla. 1)	29	Rabies in man	1 2
Leprosy (Minn. 1, Fla. 1, La. 1, Calif. 3)	161	Trichinosis	51
Leptospirosis (Tex. 1, Calif. 1)	64	Typhus fever, flea-borne (endemic, murine) (Tenn. 1, Tex. 1)	
Plagua	8	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

^{*}Delayed reports received for calendar year 1977 are used to update last year's weekly and cumulative totals

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[&]quot;Medians for gonorrhea and syphilis are based on data for 1975-1977.

The following delayed report is not reflected in this week's cumulative total: Polio, Para: Ga. +1.